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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	unknown
Filing Date	Concurrently herewith
First Named Inventor	Chenget al
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL1646 US DIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
YF		Spurgeon and Porter, Biosynthesis of Isoprenoid Compounds, pp 3-46, A Wiley-Interscience Publication, 1981	
YF		Horbach et al., Isoprenoid biosynthesis in bacteria: Two Different pathways? FEMS Microbiol. Lett. 111:135-140, 1993	
YF		Rohmer et al., Isoprenoid biosynthesis in bacteria: a novel pathway for the early steps leading to isopentenyl diphosphate, Biochem. 295: 517-524, 1993	
YF		Schwender et al., Biosynthesis of isoprenoids via a novel pyruvate/glyceraldehyde 3-phosphate non-mevalonate pathway in the green alga Scenedesmus obliquus, Biochem., 316, 73-38, 1996	
YF		Eisenreich et al., Studies on the biosynthesis of taxol: The taxane carbon skeleton is not of mevalonoid origin, Proc. Natl. Acad. Sci. USA 93: 6431-6436, 1996	
YF		Lois et al., Cloning and characterization of a gene from Escherichia coli encoding a transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for isoprenoid, thiamin, and pyridoxol biosynthesis, Proc. Natl. Acad. Sci. USA 95: 2105-2110, 1998	
YF		Takahashi et al., A 1-deoxy-D-xylulose 5-phosphate reductoisomerase catalyzing the formulation of 2-C-methyl-D-erythritol 4-phosphate in an alternative nonmevalonate pathway for terpenoid biosynthesis, Proc. Natl. Acad. Sci. USA 95: 8879-8884, 1998	
YF		4-diphosphocytidyl-2C-methyl-d-erythritol synthase, SwissProt#Q46893, November 1, 1997	
YF		4-diphosphocytidyl-2C-methyl-d-erythritol kinase, SwissProt #P24209, March 1, 1992	
YF		Luttgen et al., Biosynthesis of terpenoids: YchB protein of Escherichia coli phosphorylates the 2-hydroxy group of 4-diphosphocytidyl-2C-methyl-D-erythritol, Proc. Natl. Acad. Sci. USA 97: 1062-1067, 2000	
YF		Lee et al., Erythroid Kruppel-like factor is recruited to the CACCC box in the β -globin promoter. The role of the neighboring promoter elements, Proc. Natl. Acad. Sci. USA 97: 2468-2490, 2000	
YF		2C-methyl-d-erythritol 2,4-cyclodiphosphate synthase, SwissProt #P38663, June 1, 1994	
YF		Weng et al., Nucleotide Sequence of Escherichia coli pyrG Encoding CTP Synthetase, J. Biol. Chem., 261: 5568-5574, 1986	

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lfm		Lange and Croteau, Isopentenyl diphosphate biosynthesis via a mevalonate-independent pathway. Isopentenyl monophosphate kinase catalyzes the terminal enzymatic step. Proc. Natl. Acad. Sci. USA 96: 13714-13719, 1999	
lfm		Cunningham et al., Evidence of Role for LytB in the Nonmevalonate Pathway of Isoprenoid, Biosynthesis, J. of Bacteriol. 182: 5841-5848, 2000	
		Gen Bank Accession No. AF027189, Acinetobacter, February 17, 2000.	
		Gen Bank Accession No. U98045, Synechocystis, October 6, 1997.	
lfm		Rohdich et al., Cytidine 5'-triphosphate-dependent biosynthesis of isoprenoids, Proc. Natl. Acad. Sci. USA, 1999 Oct. 12; 96(21):11758-63	
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lfm		Ohio et al., A thermophilic cyanobacterium Synechococcus elongatus has three different Class I prenyltransferases genes, Plant Mol. Biol. 40(2), 307-321, 1999	
lfm		Xiong, et al., Tracking molecular evolution of photosynthesis by characterization of a major photosynthesis gene cluster from heliobacillus mobilis, Proc. Natl. Acad. Sci. U.S.A. 95(25), 14851-14856, 1998	
		Genbank # X07093, Diapophytoene dehydrogenase (Staphylococcus aureus), May 23, 1998	
		Genbank # G1: 5913671, Acinetobacter sp BD413 LytB, February 17, 2000	

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Sheet **3** of **4**

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Application Number	unknown
Filing Date	Concurrently herewith
First Named Inventor	Chenget al
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	CL1646 US DIV

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Y		US - 5,429,929	07/04/1995	Misawa Norihiko et al.	
Y		US - 6,107,058	08/22/2000	GWYNN ET AL.	
Y		US - 5,530,189	06/25/1996	AUSICH ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document CountryCode ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
Y		WO 9958649 A1	11/18/1999	University of Maryland		<input type="checkbox"/>
Y		WO 0044912 A1	08/03/2000	Royal Holloway and Bedford New College		<input type="checkbox"/>
Y		WO 9911757 A1	03/11/1999	Washington State University Research Foundation		<input type="checkbox"/>
Y		EP 1072683 A1	01/31/2001	Kyowa Hakko Kogyo Co.		<input type="checkbox"/>
Y		EP 0747483 A2	12/11/1996	Hoffman-La Roche AG		<input type="checkbox"/>
Y		EP 0872554 A2	10/21/1998	Hoffmann-La Roche AG		<input type="checkbox"/>
Y		WO 97 23633 A1	07/03/1997	Gist-Brocades B. V.		<input type="checkbox"/>
Y		WO 9735966 A1	10/02/1997	MAXYGEN INC.		<input type="checkbox"/>
Y		WO 0034448 A1	06/15/2000	DUPONT		<input type="checkbox"/>
Y		WO 0046346 A1	08/10/2000	WASHINGTON STATE UNIVERSITY RESEARCH FOUNDATION		<input type="checkbox"/>
Y		WO 0063389 A1	10/26/2000	CALGENE LLC		<input type="checkbox"/>
Y		WO 0065036 A1	11/02/2000	BASF		<input type="checkbox"/>
Y		EP 1043403 A1	10/11/2000	GPC AG		<input type="checkbox"/>
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Y		WO 0061793 A2	10/19/2000	GPC BIOTECH AG		<input type="checkbox"/>
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Y		WO 0183769 A2	11/08/2001	SALK INSTITUTE FOR BIOLOGICAL STUDIES		
Y		WO 0194561 A3	12/13/2001	WOLFGANG		
Y		EP 0816490 A2	01/07/1998	TOYOTA		
Y		EP 0955363 A2	11/10/1999	F. HOFFMANN-LA ROCHE AG		
Y		EP 0974661 A1	12/10/1998	TOYOTO		
Y		EP 1063297 A1	12/27/2000	KOREA KUMHO PETROCHEMICAL CO. LTD.		
Y		WO 01/8595 0 A2	11/15/2001	JOMAA PHARMAKA GMBH		

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
g		Rodriguez-Concepton et al., Genetic evidence of branching in the isoprenoid pathway for the production of isopentenyl diphosphate and dimethylallyl diphosphate in <i>Escherichia coli</i> , FEBS Letters, Vol. 473, No. 3, May 19, 2000, pp. 328-332, XP00218415	<input type="checkbox"/>
g		Rohmer, M., Isoprenoid Biosynthesis via the Mevalonate-Independent Route, A Novel Target for Antibacterial Drugs?, Progress in Drug Research, Basel: Birkhaeuser, CH, Vol. 50, 1998, pp. 135-154, XP000906878	<input type="checkbox"/>
g		Lois et al., Cloning and Characterization of a gene from <i>Escherichia coli</i> encoding a transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for isoprenoid, thiamin, and pyridoxol biosynthesis", FASEB Journal, Fed. Of American Soc. For Experimental Biology, Bethesda, MD, Vol 95, March 1998, pp. 2105-2110	<input type="checkbox"/>
g		Soolnik et al., A Table of Some Cloned Plant Genes Involved in Isoprenoid Biosynthesis", Plant Molecular Biology Reporter, New York, NY Vol. 14, No. 4, December 1998, pp. 305-319, XP000884798	<input type="checkbox"/>
g		Bartley et al., Molecular Biology of Carotenoid Biosynthesis in Plants", Annual Review of Plant Physiology and Plant Molecular Biology, Annual Reviews Inc, Vol. 45, 1994, pp. 287-301, XP000881128	<input type="checkbox"/>
g		Rohmer, Isoprenoid Biosynthesis via the Mevalonate-Independent Route, A novel Target for Antibacterial Drugs?, Progress in Drug Research, Basel, Vol. 50, 1998, pp. 135-154, XP000906878	<input type="checkbox"/>
g		Hanson et al., Methanotrophic bacteria", Microbiological Reviews, American Societyfor Microbiology, Washington, D.C., Vol. 60, No. 2, June 1996, pp. 439-471	<input type="checkbox"/>
g		Zhu Xufen et al., Geranylgeranyl pyrophosphate synthase encoded by the newly isolated gene GGPS8 from <i>Arabidopsis thaliana</i> is localized in mitochondria", Plant Molecular Biology, Nijhoff Publishers, Dordrecht, NL, Vol. 35, No. 3, 1997, pp. 331-341, XP002153883	<input type="checkbox"/>
g		Misawa et al., "Elucidation of the <i>Erwinia Uredovora</i> Carotenoid Biosynthetic Pathway by Functional Analysis of Gene Products Expressed in <i>Escherichia Coli</i> ", Journal of Bacteriology, Washington, D.C., Vol. 172, No. 12, December 1990, pp. 6704-6712	<input type="checkbox"/>
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			<input type="checkbox"/>

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